THE MINING JOURNAL. Mining

No. 479.]

ENLARGED SHEET.

OCTOBER 26.

PRACTICAL TUNNELLING.

Just published, with Twelve Concerplate and Forty-six Wood Engravings, price On Gelines, a new work on PRACTICAL TUNNELLING, explaining in detail, the setting one, the consignation, and out of such works.

By F. W. Silmink, F. R. A. S., F. G. S., N. lant. C. E., C. E.

Built by Moore. Troughton and Simma, 125, Freet-street, and Mosses, larghan, and Co., London.

to had at Weste's Architectural Library, Holbern, and Taylor's Siller, Western ton about, Strand, and of all buckenings in town and country, price in. NSTRUCTIONS—ASPHALTE OF SEYSSEL — Just

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Miller and Finds, publishers, Westminater-hridge road, London.

Miller and Finds, publishers, Westminater-hridge road, London.

Asphalte of fleytunis picturenes, and other works in Seyssas I Amphalte, at the Brich-PRES ARRAYS.

TO MERCHANTS. SHIPPERS, AND COLONIAL AGENTS.

TO MERCHANTS. SHIPPERS, AND COLONIAL AGENTS.

The DIRECTURA of the REVEREL ASPIRALTS COMPANY are propared to can work of the standard of the Standard Companyons of Standard for the insummentar SHIPPERS, and COLONIAL AGENTS.

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KILKENNY JUNCTION BAILWAY.

THE CITY AND TOWNS OF THE COUNTY OF EILKENNY,
AND AND DISTRICTS IN THE COUNTIES OF WEXPORD AND WATER.
FORD, WITH THE CITIES AND HARBOURS OF DUBLIN, LIMERICK,
AND CORK.
Capital #204.700, in 6000 shares of #250 cach.
Deapoint #1 100, per share.
LENGTW -204 miles.

No charekelder to be finder beyond the unmount of his unknowledom.

PROVISIONAL COMMITTEE.

(With power to said to their numbers.

W. Grave, Kong.

The Bart of Demands

Lord de Veset, Atherytoix

Edwards Veset, Atherytoix

Edwards Veset, Atherytoix

Edwards Veset, M.P.

Liout, Cuiness Bart.

W. Bart, Esq. M.P.

W. Barty, Kap, Norwiness

W. H. Greene, Esq. M.P.

W. Barty, Kap, Norwiness

W. H. Greene, Esq. M.P.

W. H. Finn, Esp. J.P.

W. P. Finn, Esp. J.P.

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W. P. Finn, Esp. J.P.

Lother Composition of the said of the s bridge Golf J. Greene, Enq. Greeners Frening Enq. Lincoln's Inn.

Charles Vignoles, Pop. F.R.A.S. M.R.I.A. Consulting Engineer, Meters, Louby and Curter, M.I.C.E.L. and M.R.I.A., Acting Engineer

Charles Vignoirs, Pop. F. R.A.S. M. B. L.A. Conceiling Engineers,
Murker, Lonky and Carley, M. I. C.E. L. and M. B. L.A., Acting Engineers.

George Persona, Eng. Munchesher bandings, Parliament, street, Westminater,
Secartant van Loronen Acastro-Bitment. Stiffing, Eng.

Bank of ireland, Provincial Bank of Ireland, National Bank of Ireland, and the
Branches of Chout Ranks.

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The Onloss Bank of London, S. Mongalt-wirest, Leithbury.

The Onloss Bank of London, S. Mongalt-wirest, Leithbury.

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towns in the country of Kilsenny and the adjacent lorens and districts in the own
tion of Wegtord and Waterstord with the other and harbours of finding, Limerick, and
Corts, by forming a calinear from the commercial and manufacturing city of Rokenny to the Debtin and cashel Railway, near Abbrylets.

The towns thus convenienced in their constonencesion worth Elizenny and the
cities and harbours of Joshin, Limerick, and Corts, are New Bens, Innivitingue,
Thomastown, Emerkopher, Edit, Catles, Bajvraguett, Castleconomy, Freshrow,
Johnstown, Urlingthed, Durrow, Baltonakili, Chough, Abbrylets, Ballsrosa, dewhod, with the extremely and company of Kilkenny, and the adjoining conservy tratered by this railway, consists of corn, burker, black castle, pigs, always, wond, Ar.

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and Landon and Carley of Kilkenny, and the adjoining conservy tra
tered by this railway, consists of corn, burker, black castle, pigs, always, wond, Ar.

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for the flower, well known for their amprice quantities, must also

Or 6 per tend on a capital of d'pint, see.

Enqueries con-third of the capital to be burrowed at 6 per cent, per annexe, the short weaping allow from their to special to be burrowed; at 6 per cent, per annexe, the short weaping affect some than to special.

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doe from which moved arise finds his proximally of the conservatives.

As for as the local provisions and handholders have been concepted, they have algorithed before supervent of the measure, and declared their resultents in effect in these strengent support.

The flacinity of the characteristics will be flacined by the Art of Parliament in the amount of their composits of many and provise will be taken to allow forested at the state of the grant of a not good, per nonzero and deposits and calls, to be composited from the desire of such parliament.

Prompetitions may be had und applications for characteristics, the following, the secretary, at the company's temperary offices. 4, Manchester buildings, Parliament attents, Conditionally, Manchester, Manc

PORMS OF APPLICATION.

To the Premisened Committee of the Ribbinsh Junction Ballway.

Mr Lineau and Schwerzaman - I having request you will append on an amount of the share proposed ratings and I ringely by you be dispersion of it is not have speak made attended as you may be primately to you for the state for the analysis of the anharing is contract argument for the contract of your lineau, and will be asharing in contract against the anharing for the contract of the contr 54

1864 CORK AND BANDON RAILWAY,

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POLICE OF EXPLICATIONS

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RISH GREAT WESTERN RAILWAY, FROM DUBLIN TO GALWAY.

TO GALWAY.

The Landon Secretary begs leave to by before the public the following communication, just received from Capt. W. S. Mooreons, the neglineer of the communication.

meastion, Just received from Capt. W. S. Morerow, the public the following on the control of the company of the

chandine at the docks, and choice to the updary to being contiguous, and choice of the docks, and choice of the docks and the docks and the docks and the docks are to be taken to necessardate a considerable per too Dublin, such control may be taken to necessardate a considerable per too near of Edenderry, by way of Elizone and the Maynorth, but provided the receive due and proper support from the Cashel Company, as that the public full accommodated through the means of their railway with its excellent minute in Justice city, I should not recommonded you be take any other control. The surveys are to rapid progress, said the plane for Parliament will be in near, agreeably with your instructions, within the time required by the limits.

I have the honour to be, Gentlessen, your decident covered.

W. S. MOORE

The Provisional Committee of the Dublin and (G. W. Islah) Galway Rallway Company, &c.

TRISH GREAT WESTERN RAILWAY, FROM DUBLIN pracet to Galway - Notice is brothy gives, that NO PURTHER AP-PLICATION for BHARES will be received inter than the 18th heel, immediate which the shock will be shorted.

LONDONDERRY AND ENNISKILLEN RAILWAY.

Capital of 102, 202. in 10. 100 and abarras of did cach.

Deposit of 102, 202. in 10. per tharts.

PROVISIONAL COMMITTEE.

Right Hon. the Eart of Charlemone, Lieut. of the county Pyrone
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as of evidence before the Select Committee We have conferenced to gain information in the ciste and paster of the West Committee a variably of their size he found in t the House of Con recored to gain mater of the T various sources, respecting the state and pa

THE SYDRAULAC RAILWAY.

Sex.—**J. B. P.'s " letter, in your last Journal, almost convinces me that he cisched here read Mr. Shuttleworth's pampilet on hydranlic propulation; and, if so, he is essentially extitled to give an opinion upon it, foreig, he does not mean to say, that water would not issue from the foot of a westited pipe one foot diameter, and with a head of 198 feet, with a very great velocity, or that even at a distance of seventy yards from the variety pipe, the velocity would not still be very considerable, and this the utament distance for which Mr. Shuttleworth contends. Whatever may be the defects of the hydraulic system, I think Mr. Shuttleworth has not failed to provide sufficient both of power and velocity.

Het hyterature.

Bisherhom, Oct. 21.

THE HYDRAULIC RAILWAY.

Sen,—Is it and a little singular, that the above invention should have been effewed gradually to straggle its way through the propoles spathy to which the present overabundance of inventive talent maturally given rise, without assuming the ire of "J. B. P.," and that only when the hydraulic railway appears to be on the point of taking its place among the great preconceptualist inopovements which pre-aminently distinguish the age, year correspondent should volumently denomines the invention and even the invention. I longing too, it will be considered sourcely less singular, that a mean, whose object evidently is continuation, should hide himself bedied his fulminating cloud, and that his themselve, which make a great noise, but coally have no lightness in the same. Such as a considering of the thin source of "J. B. P.'s" remarks, the more degmatam of their notation complete a name. Setting aside the obvious (intended) personality of some of "J. B. P.'s" remarks, the more degmatam of their notation complete an same to sucherise them—even if any some could. This I am entitled will be apparent to may of your dispansionate conficer, who will be at the trouble of carefully personally your correspondent's letter. What is it componed of, but in the first place, unbandenne considered will be a intended of its place, of a string of intercognitions. And what is the persoling feature estimate, designed to a propensal there is no eventually finite of the prevailing feature without of to J. B. P's" intercognitions. And wat is the prevailing feature without of the propensal there is no eventually and make the residual place, and another angument there is no eventually and make the prevailing feature without of the prevailing feature without of the prevailing feature without of the prevailing feature without the prevailing feature without of the prevailing feature within our of J. B. P's" intercognitions or assumptions, if not develop is non-eventual time of the prevail of the preva

whether "J. Br R." on we considering the terms of his is feel work inclined to correct if, so as to institute such a collection that, tan, on an authority to which the tenor of his whole clearly shows he considers the very fairly of activate must be no themselves—ensurely, his own ince dust. But as for supplied, it was the mentions after its adopted the auxiliary unfer power, through the medium of wat which I final I was the first to propose in all of any own inventionally thought the auxiliary unfer power, through the medium of wat which I final I was the first to propose in all of any own inventionally thought the auxiliary unfer power, through the weathward was a locality whentid affect falls sufficiently high to wast wasch as cought to be compleyed as my immediate propositive agent; an credibly independent, they are perpisting to adopt their systems unlikely and advantage of which, the atmospheric proteinmen to confirm; that is, unless they should ultimately find their ay accountability of to it—and other their friends in fiventined are to advanta the atmospheric system for cannot ; being a parpet whether "J. B. B." on re-feel much inclined to correct that, too, on on eatherity to clearly shown be considers the

to any game and advantage of which, the atmospheric field their system enteraccommoditied to it—and after their friends to freetined are now begins
to advanta the atmospheric system for causity being a purpose for whi
have long shown hydronic proposition to be well adopted.

I dare say most of your renders will be of options that beterrapptories
with a proper degree of coefficient, are occasionably resected to by som
those who think is well to hide ignorance, rather than be at the tremble or
moving it by semind continued study; however this may be, "J. B. P."
lights in this save mode of writing; and to continue my replies; I beg to
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Having got as far, "J. H. P." now is not askeded to begin with securing a part i beg to asseme him that I have not discovered any new how in hydrostation, to the operating of the old ones; that I leave esticuly to the dynomical assessmanics—of whom I few there are more than is generally imagined—out they need they need they need they are personaled, the world blind, and their notions infulfible; "but far may part, I consider it, as we witness it no id Regional—notwithstanding a few biots in it—a very good nort of world, for it is full of fine manly minds, that are an homese to the greatest nation and they notional coupler the sea whose upon; and if they are in more few things, for a time, minded by untinguated heaf-hours studieds, whose presumption presume them to took ones the pages of science states that to study them, and whe marking them to the property of the facts, each mintakes are not so meak to be imported to the public as to those self-confident intriviers presidency or prime of our agright minded recently them, and who marking themesence ages portions of our agright minded recently more what themselves open portions of our agright minded recently more what the a strong confirmation of what I have through life therefore an analy, that those who are the moral marking in the strong confirmation of what I have through life therefore—annelly, that these who are the moral marking posterior in the first to charge these things on their morting the team from their near more for life it lives are apposed to any markind defect, are the first to charge these themse those who are the moral moral moral marking one the moral marking one the moral marking one the moral marking on their posterior of moral marking on their posterior of moral marking one the moral marking with the season female, and the moral marking one the marking with the season female, and when he has an opposent, with review responsibility of a diagnism, at any rate, he will remarke the milk themselves on the receipt marking the modelment of the m

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RAILWAYS IN IRELAND.

RAME WAYS IN INSTANCE

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party richest and of Ireland. I am, the, the, the S. O'MALLEY."

LEASE GREAT WEXTERN.—This is a projected line from Dablin to Oblinapida I.,600,0000., to 1001 there is empirically on the Dablin and Cashei area finding, passing Educatory, Philipsonus, Tyrrelepans, Cliert, Paires, Kilbergen, to Albhoo, where it will price the Shannon, and threese the Bullenshier, Angletin, Longhest, and Commonon, to Galway. This after proposal for a reliveny ormanisation assess the centre of Ireland. Dablin to the Atlantic, and other makes the great limitations plain of Ireland, and over makely a fined take white country producing makerials for its construction, labour being consider the statement of collection of the country producing makerials for its construction, labour being consider to take the contract of the contract of the contraction of the contract being contract to the contract to the contract of the contract to the con

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THE RAILWAY CONSIDERED WITH REFERENCE TO

the passengers, but it is to the rad as important to consumpt cleary power is its subscrimentium to sensences, and on the p the Hritish statemens and merchant in its hunring on Britis the introduction of the bunding vesters, early in the present its object of a greet statemens (Mr. Piti) to render this co-of the commerce of the morth, by affecting it the floresheat or imported, at a one-venicnt controller distribution, without hus the gayment of duty unnecessarily, if in he re-shipped for for constantion, or prematurely, if required for home consumpt on the river Thomes, with their immense waveleness, then or constructed in occuration, have justified the conception of the constitution, or prematurely, if no here changed for feedings, constitution, or prematurely, if you there home constructed in occession, have justified the consequencemption. It is also executed in occession, have justified the consequence, them configurate constructed in occession, have justified the consequence of the minist the college of the consequence of consequence of consequence of consequence of the latest probability of the consequence of the consequ

out inserted in to-day's Justical, we find this very is sectionized inserted in to-day's Josephal, we find this very important undertaking has received the suspent of the public, and that the cales are only allested all the staces, but are obliged to erfore a given of applicants. We are also informed, that there is every reason to expend of Trade will give its approved to this there is every reason to expend are decisions of extending the cited lines of the biogedism, to be to case of war. The assistances of the Great Western and other cases arraying and this modertaking, and the cross-taking stagement can the authority and its projectors one descripting one position for the passes which they have achieved in bringing one position for the passes which they have achieved in bringing in a monocarbin lines on a which at one time was thought to to happines. With a call very to the garket retablication will find their respirators of the parket retablication will find their recycles parts of the control colours to the happines. Will find their recycles parts of the control colours to the happines will find their recycles parts of the control coloured from the thing the Chamest, which is estimate to extend to the sage than the finguish Chamest, which is estimate to extend to the sage than the sage to the finguish chamest, which is estimate to extend to the sage to the sage that the sage than the sage to the sage that the sage than the sage to the sage that the sage than the sage that the sage that the sage that the sage than the sage tha

Lowence and Dorne Raseway Comparaty-The very plaints which have for on long a time been made against time want of prominably in the transmission of their traint, and in temptage most in their engagements with the pathin, will, see longer be based. The deformination to expending the extension of their pathin, will, see longer the based. The deformination to expending the extension of the off, and the decimalism that the extension of the off, and the first the present hidden of electric field a decrement has taken pine reactantly be highly broadeded to the positio. By the parameter of program of the work program, there the new extension of the work program, there will be a based of the position. By the parameter program, there will be in hand a net striping our file works program, there will be in hand a net striping our of the work program, there will be in hand a net striping our of the work program, there will be in hand a net striping our of the work program of the will be constituted in the parameter of the will be constituted in the parameter of the will be constituted in the time for a section of the of the will be constituted in the time for a section of the will be constituted in the time for a section of the will be constituted in the time for a section of the will be constituted in the time for a section of the section of the will be constituted in the section of the se

Newsons, Newsons, and Heatharton Hall war, ... On Wade last, a deputation from the previous of committee, streeted by the stort Lord Alenguanay, and directors of the Strong Drop and Streete.

IMPROVEMENTS IN STEAM PROPULSION. The state of payment. U.S., by Mr. Oc. Suggested with the different active ments in cisions merigation by the access properly and other homeologo of a profile berin and height stimutile usind, which, if homegit to marketing, yell confer the most improved the chaffs or marketing, and place within over great p appear of which all present on conveytion can be formed, and as triting a working count that the first study for the confine which over great p appear of which all present on conveytion can be formed, and at a triting a working count that the first study for the confine the open-addresd the only one. The laterest resulted by the first disparting the special of the confine of the conf the battere, and segment the from the batter and and segment the primer and the bottom on a planting of the batter to be been as a planting of the promoter to the open

plays the permanent guass, and, in preference to all others, atmospheric sir. The heat contained in the sir which occupes from the working optimiter is taken up by the sir, which anders it at each stroke of the engine; this he accomplishes by means of an apparatus called a regenerator, and so perfectly does it operate, that the heat coupleyed in first setting the engine in medical contineons to emeans it in full working those, with no renewal more than is requisite to supply the inconsiderable less by rediation. This inventions was brought before the scientific world in London in 1833, and with the prominent and worthy exception of Dr. Ure and Practices Paralley, who well appreciated the disnovery, nearly all the leading accombine men of the day condemned the principleus unasund and entenable. After namerous preliminary experiments, he constructed in London as engine of 5-horse power, the performance of which was witnessed by a great number of arientific guationers in the metropolis. A number of custors have hidiarth delayed the perfortion of his plan, one of which was the high temperature in the circulating medium, soon destroyed the valves, piston, and other working parts; be has, however, personared, and as now consutranted two experimental engines to work at lower temperatures, and is gradiantly, but everly, approaching the realisation of this important invention. We shall resume the subject in on early Number.

IMPROVEMENTS IN STEAM BOAT PROPULSION.

IMPROVEMENTS IN STEAM BOAT PROPULSION.

Notwichstanding the number of inventions (many of which have been patented) for the improvement of the float boards of the paddis-wheels of steam-boats, some of which are of a complex and expansive nature, the majority of steam-boat paddies retain aboost the simple form originally introduced upwards of theirly years ago, with, perhaps, some little modification—viv., the restangulor wood float—asses now, though still of the same simpe, being made of iron. The disadvantages attendant upon this chooks from their impinging on the series of the water, at an angle injectious to the propulate power of the engine, analogs of that unpleaded the control of the series, causing all that unpleaded to the property of the series, causing all that unpleaded to the property of the containty ingentions method of reports (for which, we believe, tone as three patents have been had, and signensive law-scale software, tone as three patents have been had, and signensive law-scale southered, that is, by the ortically ingentions method of reports [for which, we believe, tone as three patents have been had, and signensive law-scale southered, that is, by the working of levers and other machinery, making the many the retained propulative power while between the water originarys, avail of its onlive propulative power while between the water originarys, avail of its onlive propulative power while between, and the measured, when from the retaining of the water originarys, avail of its onlive propulative power while between the state of the st

THE FAN PROPELLER.

A homestical little stream bear of 50 teas, called the Mystery, has just been beauthed as Closer-wise, properlied by another as my leavened means of properties of the months as my leavened means of properties to the conjugation of the months for the properties of the properties of the properties which has pet here patenties. This properties is similar to the force or units of a whole has pet here properties. This properties is similar to the force or units of a whole has pet here properties which the enters, that the test is the results in a whole the enters, that the test is the results in the results and the will of the at-out-whole and then becomes their properties and reads for it was heritages. The force of the test properties and the will be the test properties and the will be the test properties and the results of the test properties. The fact of the test properties are printed to treat the test properties, and one to be tested that in the article one is the tested that the printer test be applied to search, and the properties the simple and properties, and one is the properties that the properties are printed to be the properties.

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wateries, when, butting maked the mind up the circu as for as Charless, and, and has below, tacking in said out of tot-vil its limitations reportantly of the present of created insuch between, and he present ator raits, and wherever, ing seen the residen. Fit recentific and it is not do, else will teem seet to

This frigule, which it will be reasonabled was built on the pe This frigule, which it will be renembered was built on the precise I of the Presentation, a public wheel stoomer, for the purpose of mai trials of the various kinds of propellers, made her final trip down river on Friday week, after numerous experiments, extending over a period of eighteen mouths. The highest rate of spend which has yet been pro-duced has been by F. T. Smith's Archimedian screw, and which, in fact, may be taken as the greatest known in the history of steam navigot taking tomonge, small power of engines, and all other circumstances, secount. The Promotheux, on her average of twelve trials (that being standard taken), made 8 knots, or his the Rattler accomplished 9 knots, or 114 statute miles, per hour. Mr. Steinman's propeller reac 9-537, and Mr. Steinman's propeller reach the Lords of the Admiralty have decided to send the Rattler to equipped with the Arghimedian acrew, under the directions of Mr. P. Smith, and which evidently produces the highest amount of speed, at least expense of the power of the engine. The choice of the Lords of Admiralty has been guilded, as well by the aspector power of this are as by its size, being only fifteen inches in heagth, and only the feliameter. The vessel has already her musts on board; and she will rigged for no with the utemat dispatch. From the nuclear which the fair and most antiafactory trials have given in favour of the acrew propel it is said that six iron ships of a large class are immediately to be a fraction of the same principle. All the trials have hen conducted us the superintendence of Mr. Lloyd, chief engineer of Wootwich Dockyard.

A trial, which took place on the Thursday, with the Historyherer, farther establishes the superiority of the Rattler. The Historyherer, farther establishes the superiority of the Rattler. The Historyherer, always been committeed the fastest hour on the river, and very recent and helf a-head. The following is the proportionate horse-power tomage of each tenact—vig.; may be taken so the greatest known in the history of steam navigo

Or nearly 50 per cent. The Archimedian seree propeller has, there after all the severe trials, and under all circumstances to which also been sufficient, proved its undoubted superiority, and we trust the tentor pill seap his merited coward.

CLARIDGE'S SEYSSEL ASPHALTIC MASTIC.

A little work, containing full lustructions for the use of this now highly, oproved material for pavements, covering erches, foundations for bridges, guiters, channels, and other building works, has just been published, as announced in our advertising columns, and which should be in the hands of every architect, builder, and artinam, who are thely to be called in have recourse to, or interested in, its use. It enters most fully into the subject, from the preparation of the asphalte from the bituminous limitation of the Java Monatains to the finish of the various processes in which it is employed. The limestone is first reduced to a fine powder, proportions of son grid and animals tay are added, and the whole is their put into large cauldones, heated by strong first; the ingredients are kept constantly attrining by powerful machinery for several hours, until the whole has become thoroughly amelgamented, and reduced to a mastic. The mineralities used must be of the assess quality as that which impregnates the limestime, and notifier gas or other ter will answer the purpose. It is then run into moulds one fiest six inches signars, and six inches does, canh weighting from \$12\$ lbs. to \$130\$ lbs., and in this first if is ready for use. The nation of stage instructions first describes the proper method of laying paraments, and as there is no work, pechapa, requiring greater there to insure devaluility than the nature of the foomolalism, and the subsequent processes of the work, he lays them in an locid a manner before the reader, that mone engined in buckling can possibly mistake them, including the use of the coalgree, the fool mopicyed, and how to fine the mastic; particular instructions are given for beying the groundwork, the concrete, the mastic itself, and make ing good joints. For coilins, and underground surfaces explained indirections are given to account them from the layer of the water them from the layer of the material of the material will not adhere the desage, dusty, or deep particular, couple instructions are given to account them from the layer of the covered to the assistance with the meaning, not the mather, and surface, are delined; is met with, as the material will not achieve the desagn, dusty, or deep surface, and is appreciate of energy particular of their covering of them, and sur of every architect, builder, and artison, who are likely to be called to have recourse to, or interested in, its use. It enters most fully into the sub-

SAFETY VALVES, -- Mr. T. Links of a lover of the first needed, and it discolors at it pretines; as their opporation and all the inner is active weight being tilther justice at ordining the british makes get believe a content points, the first, while reads the sunt or proposing the testing allows the places to the mad of the opposing the testing allows the tilther to opposing the testing allows the tilther to the first tilther to the tilther tilther to the tilther tilther to the tilther tilther to the tilther tilth raffic between. Shread the enter offsk in it then sein on the servency, and trilling the pi and allows the rivaments surgery. Scale National Themsetamento

having been end congressing this bills wonder, incomed by Mr. Don Newmonie, and it temp promptle that we may be forecast with a si-in the intropid owner, we readily publish the following particular